Chapter 10

PLANS AND STAGING PROGRAM





PLANS & STAGING PROGRAM

for the Airport Master Plan for Whiteriver Airport

10.0 GENERAL

In Chapters V and VI, "Facility Requirements" and "Development Alternatives" an evaluation was made of future options for airside and landside development. This effort resulted in the selection of an alternative for future airport improvements that could accommodate previously identified requirements needed at Whiteriver Airport. The purpose of this section is to describe the Airport Layout Plan Drawing Set that depicts the recommended development throughout the 20-year planning period.

The set of plans, referred to as the Airport Layout Plan, has been prepared to graphically depict the recommendations for airfield layout, disposition of obstructions, and future use of land in the vicinity of the airport. An 11" x 17" set of these drawings is included at the end of this Chapter and include:

- Cover Sheet
- Airport Layout Plan Drawing
- Building Area Plan Drawing
- Airport Airspace Drawing
- Inner Portion of the Approach Surface Drawing
- Land Use Drawing
- Exhibit "A" Property Map

10.1 DESIGN STANDARDS

Whiteriver Airport has been identified as a general aviation type facility that should ultimately be designed to accommodate the aircraft in Airport Reference Code (ARC) B-II which weigh less than 80,000 pounds dual wheel gear (DWG). Runway 1/19 will be designated as a B-II runway which is planned for use by aircraft with wingspans of less than 79 feet and approach speeds of less than 121 knots, although larger aircraft may use the airport if within their performance characteristics. Advisory Circulars

published by the FAA have been used to provide general guidance in the overall planning effort. These guidelines are designed to provide flexibility in application to ensure the safe, economic, and efficient use of the airport.

In order to meet the design standards for a B-II runway, the major projects required at the Whiteriver Airport include relocating the taxiway by 40 feet to the northwest and extending the Runway Safety Area at the approach end to Runway 1 by approximately 220 feet. These items, along with several other planned development projects, are depicted in the Airport Layout Plan Drawing Set.

10.2 AIRPORT LAYOUT PLAN DRAWING

The Airport Layout Plan (ALP) drawing graphically presents the existing and future airport layout and depicts the recommended improvements which will enable the airport to meet forecasted aviation demand. Detailed airport and runway data are provided on the ALP to facilitate the interpretation of the master plan recommendations.

The Airport Layout Plan shows a number of airport improvements associated with both the airfield and the landside area. The improvements for the landside area are illustrated in more detail and at a larger scale on the Building Area Plan drawing and are discussed later in this Chapter.

10.3 BUILDING AREA PLAN

The Building Area Plan represents a refinement of the selected development configuration and provides a plan for construction of facilities to meet forecasted aviation demand. The condition and location of the existing building area will allow expansion for future airport operations. Included in the building area plan are the relocation of the operations tower, slurry tanks, and slurry containment pad, recommended sites for apron expansion, and tiedown reconfiguration. The recommended building area development plan will accommodate future needs without disrupting current airport operations.

10.4 AIRPORT AIRSPACE DRAWING

The airport airspace drawing depicts a plan view of the airport FAR Part 77 surfaces and profiles of the Part 77 approach surfaces for the ultimate runway condition. The existing approaches to Runways 1 and 19 are visual with slopes of 20 to 1 for a distance of 5,000 feet. The planned approaches to Runways 1 and 19 are nonprecision instrument approaches utilizing the Global Positioning System (GPS) with slopes of 34 to 1 for a distance of 10,000 feet. The plans and profiles facilitate identification of obstructions, roadways, and buildings that lie within the confines of the Part 77 Airspace and the approach surfaces of each runway.

10.5 INNER PORTION OF THE APPROACH SURFACES DRAWING

This drawing provides a larger scale plan and profile of the inner portion of the approach surfaces, extending to where the approach slope reaches 100 feet in height, and the Runway Protection Zones for each existing and planned runway end. The plan depicts the physical features in the vicinity of each runway end, including topographic changes, roadways, and trees. The dimensions and slopes of approach surfaces are functions of the runway service category and the approach classification.

10.6 LAND USE PLAN

The Land Use Plan depicts the zoning regions within the airport vicinity and those land uses authorized by the White Mountain Apache Tribe. The Tribe, in coordination with the FAA, state, and local governments, should strive to coincide zoning regions with the compatible land uses outlined in Federal Aviation Regulation 150/5020-1, "Noise Control and Compatibility Planning for Airports".

10.7 EXHIBIT "A" PROPERTY MAP

The Exhibit "A" Property Map identifies the ownership or interests in each property tract located within the airport boundaries and those required for future aeronautical uses or development. When possible, the airport should pursue ownership of all properties within the airport boundaries, safety areas, and protection zones. When ownership is not possible, an avigation easement should be obtained.

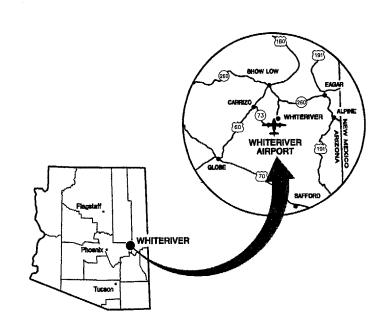
WHITERIVER AIRPORT MASTER PLAN

WHITERIVER, ARIZONA AIRPORT LAYOUT PLANS

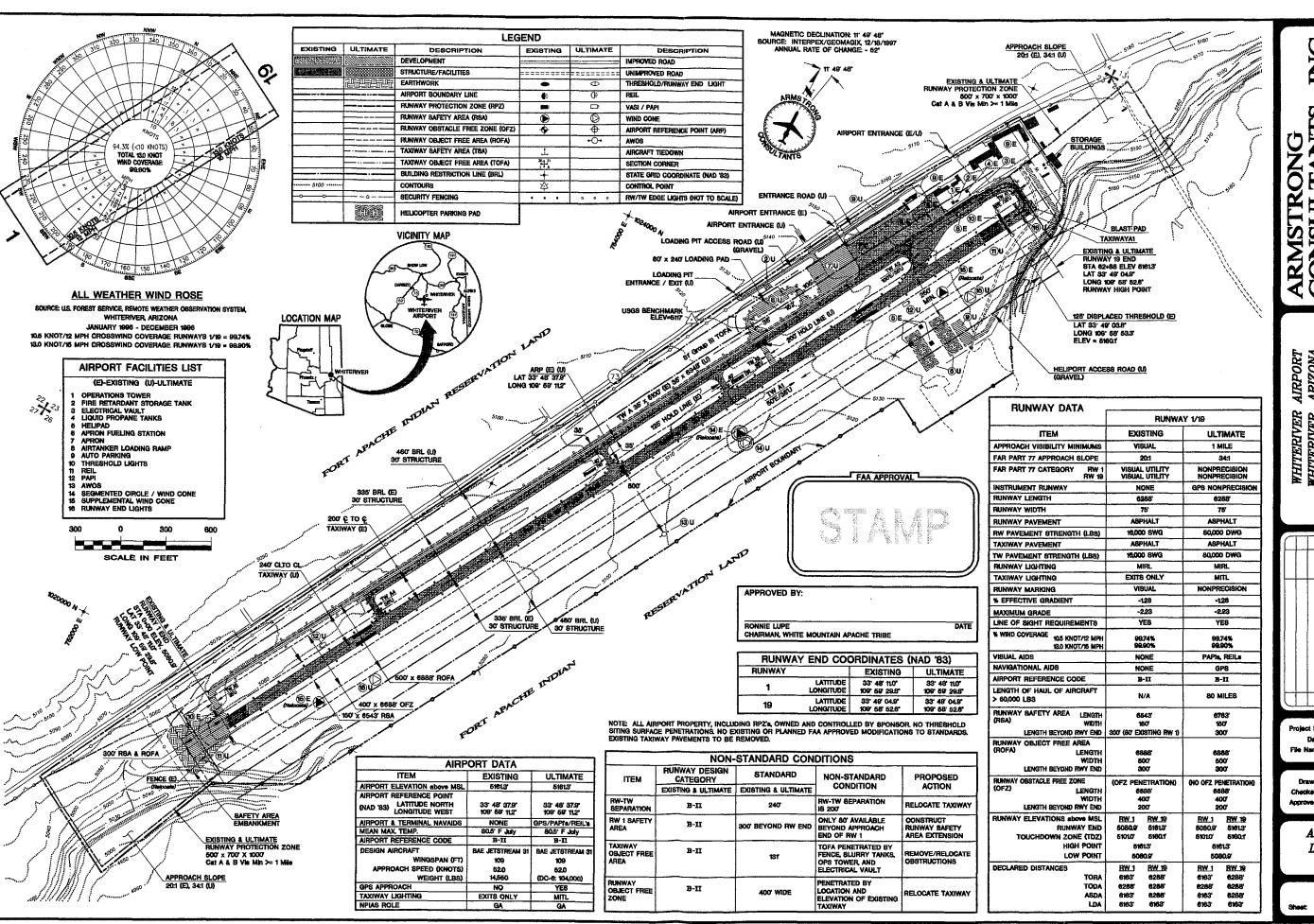
ARMSTRONG PROJECT NO. 965483

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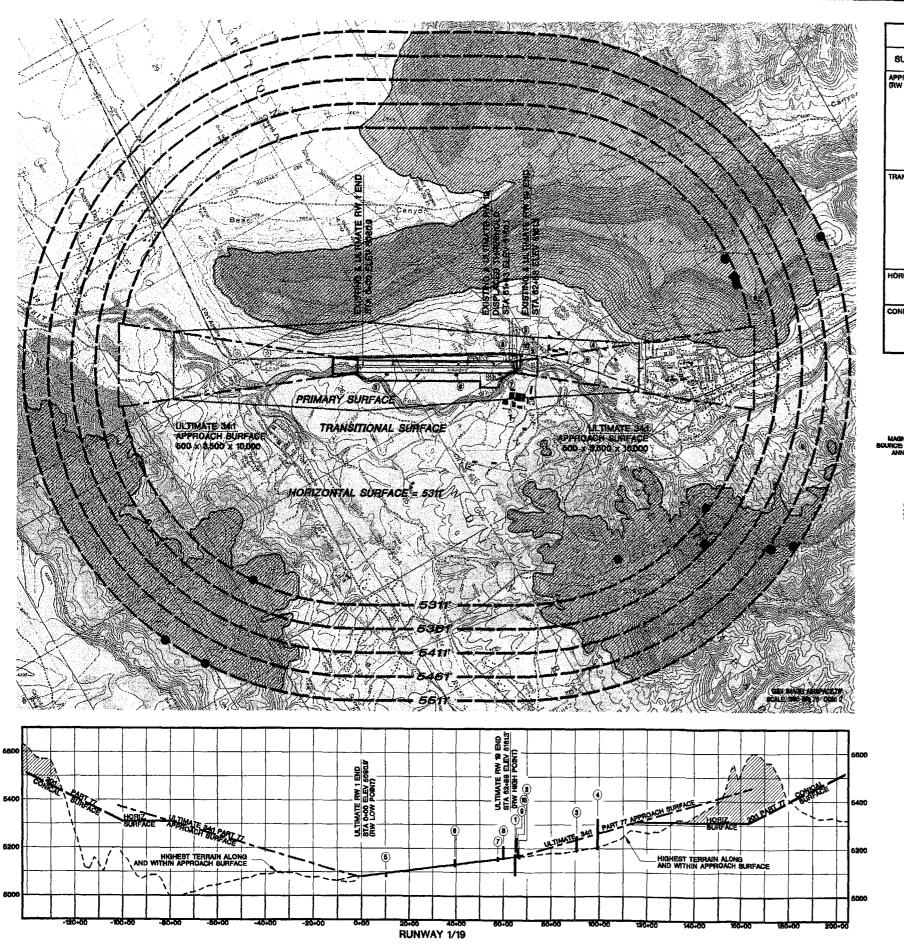
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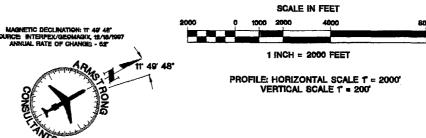
> **AIRPORT** LAYOUT **PLAN**

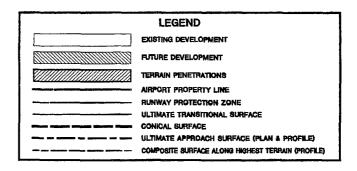


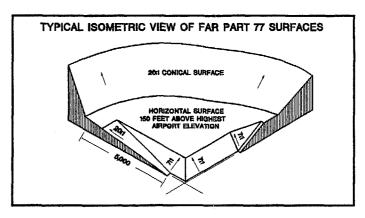
	OBSTRUCTIONS					
SURFACE	OBJECT	TOP ELEVATION	AMOUNT OF PENETRATION	PROPOSED ACTION		
APPROACH (RW 19)	† HELIPAD SERVICE ROAD	6170′	8'	RESTRICTED USE		
	2) STORAGE BUILDINGS	617 0 ′	10"	OBSTRUCTION LIGHT OR REMOVE		
	s) POWER LINE	5247*	ę.	OBSTRUCTION LIGHT EACH POLE ALONG POWER LINE		
	4) SPORTS FIELD LIGHTS	5320	58'	NONE (OBSTRUCTION LIGHTED		
	NORTH/NORTHWEST TERRAIN	VARIES UP TO 5500 MSL	VARIES UP TO 144"	NONE		
TRANSITIONAL.	s) POWER LINE	5267	2'	OBSTRUCTION LIGHT EACH POLE ALONG POWER LINE		
	6) SUPPLEMENTAL WINDCONE	5092	10"	CONTRUCTION LIGHT		
	6) SEGMENTED CIRCLE/WINDCONE	5149°	24'	OBSTRUCTION LIGHT		
	7) SUPPLEMENTAL WINDCONE	5160'	8	OBSTRUCTION LIGHT		
	8) OPERATIONS TOWER/ANTENNA	5204.9	25'/44'	OBSTRUCTION LIGHT		
	9) RADIO SHOP/ANTENNA	6190/5239	20/69	OBSTRUCTION LIGHT		
	10) AUTO SHOP	6197'	27	OBSTRUCTION LIGHT		
HORIZONTAL	NORTH/NORTHWEST TERRAIN	VARIES UP TO 6190'	VARIES UP TO 789'	NONE		
	NORTHEAST TERRAIN	VARIES UP TO 5550'	VARIES UP TO 149	NONE		
	SOUTH/SOUTHEAST TERRAIN	VARIES UP TO 5560	VARIES UP TO 249'	NONE		
CONICAL	1) MICROWAVE REFLECTOR	6140	809	OBSTRUCTION LIGHT		
	NORTH/NORTHWEST TERRAIN	VARIES UP TO 6240	VARIES UP TO 809'	NONE		
	NORTHEAST TERRAIN	VARIES UP TO 6080	VARIES UP TO 695	NONE		
	SOUTH/SOUTHEAST TERRAIN	VARIES UP TO 5880"	VARIES UP TO 369'	NONE		

DESIGNATES TOP ELEVATION IN GIVEN AREA OF TERRAIN PENETRATION

DESIGNATES POINT OF HIGHEST TERRAIN PENETRATION, IF DIFFERENT FROM TOP ELEVATION







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WHITERIVER AIRPORT
WHITERIVER, ARIZONA
AIRPORT LAYOUT PLANS

Revision

Revision

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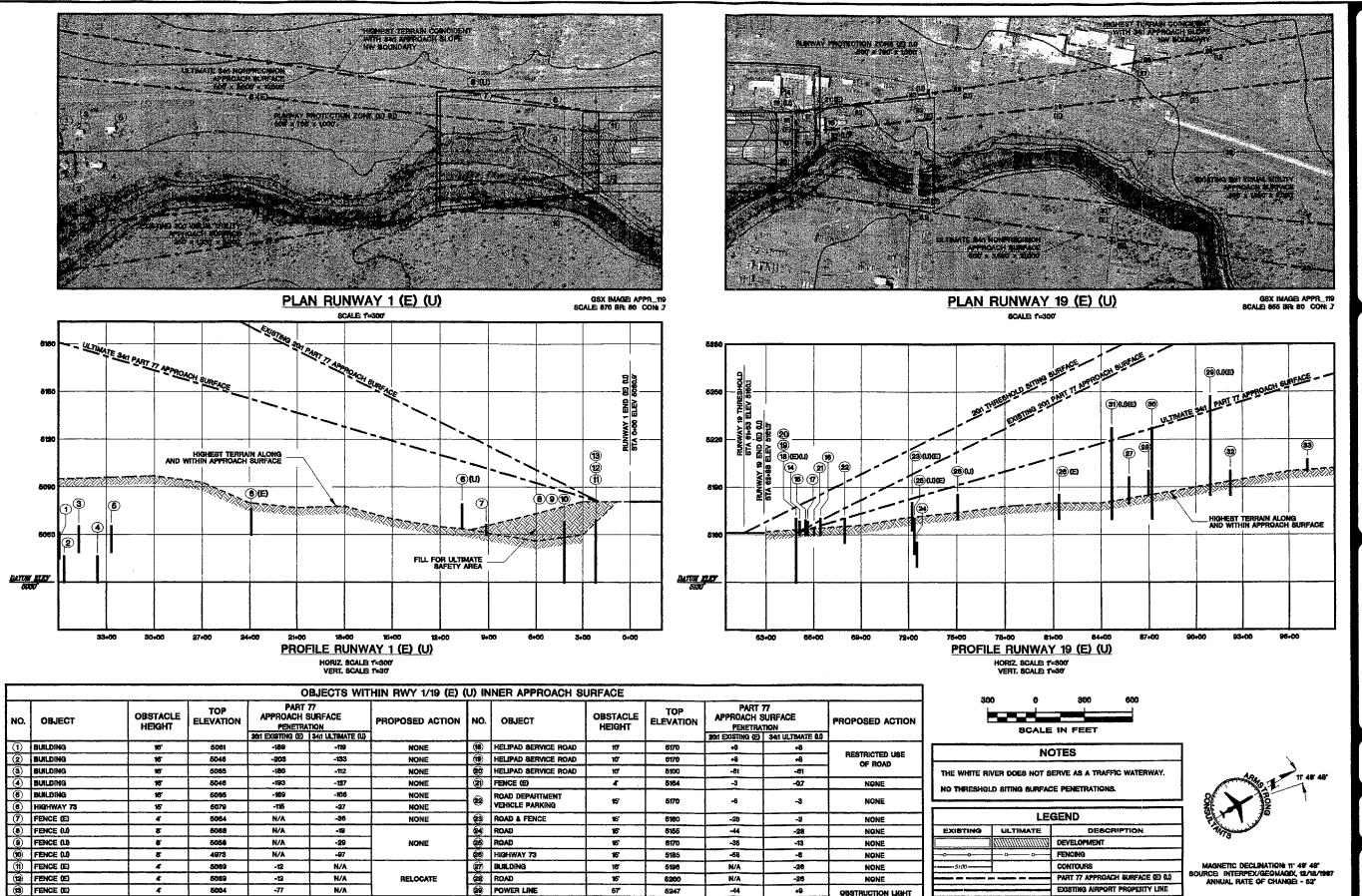
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PART "77" AIRSPACE DRAWING

8heet 3 of 9



5227

5227

5200

5207

-33

N/A

+7

-41

49

57

EACH POLE

ALONG POWER LINE

NONE

RUNWAY OBSTACLE FREE ZONE (OFZ.

RUNWAY OBJECT FREE AREA (ROFA)

UTILITIES (E = ELECTRIC)

PAINT STORAGE BUILDING

9

10

5169

5170

516B

S VACANT TRAILER

8 STORAGE BUILDING

(7) STORAGE SHEDS

+6

+6

+4

OBSTRUCTION LIGHT

OR REMOVE

+5

+1

90 POWER LINE

(31) POWER LINE

19 HIGHWAY 73

(33) SEWAGE DISPOSAL POND

ARMSTRONG Z O O

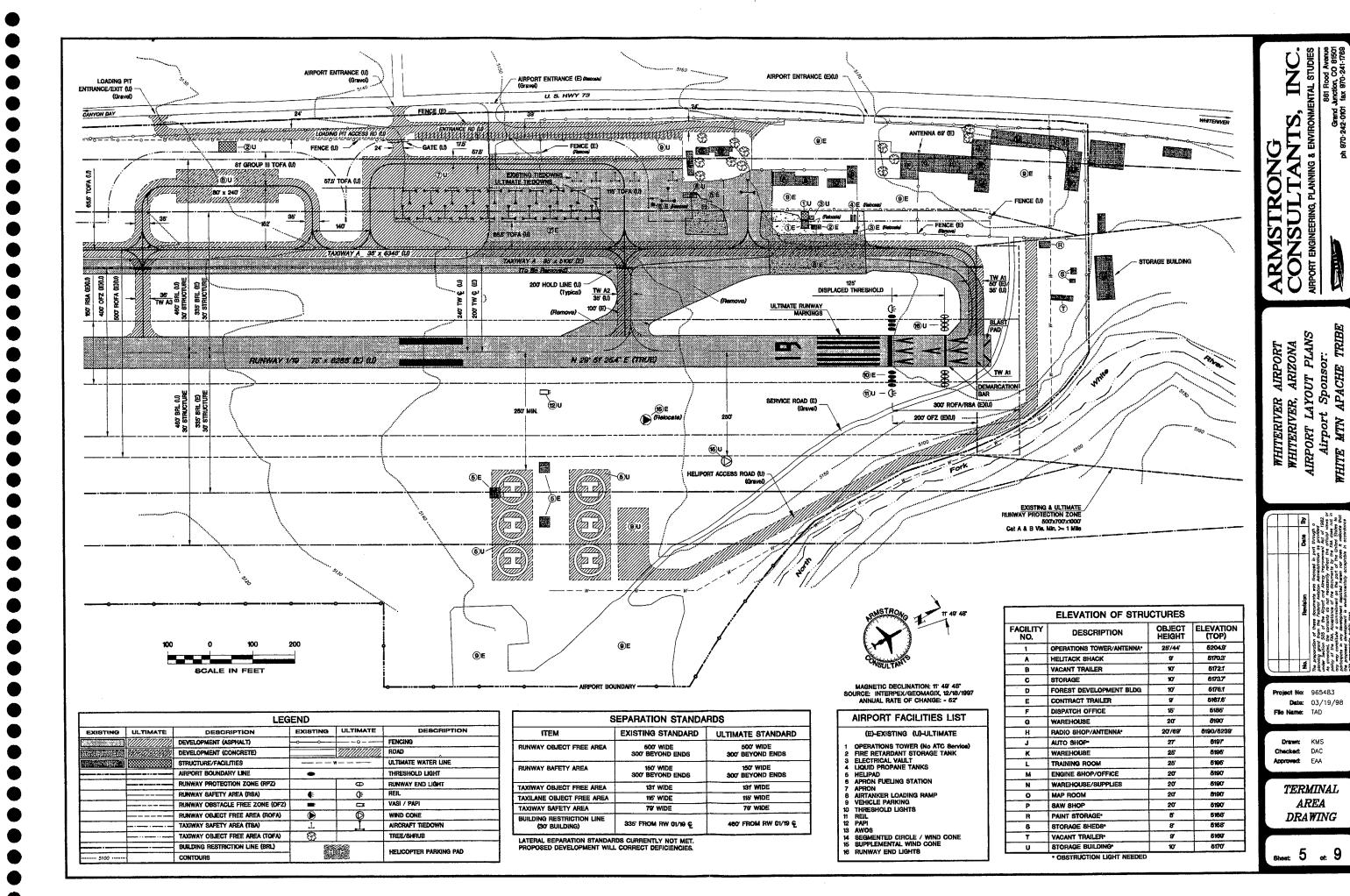
LAYOUT PLANS IRPORT

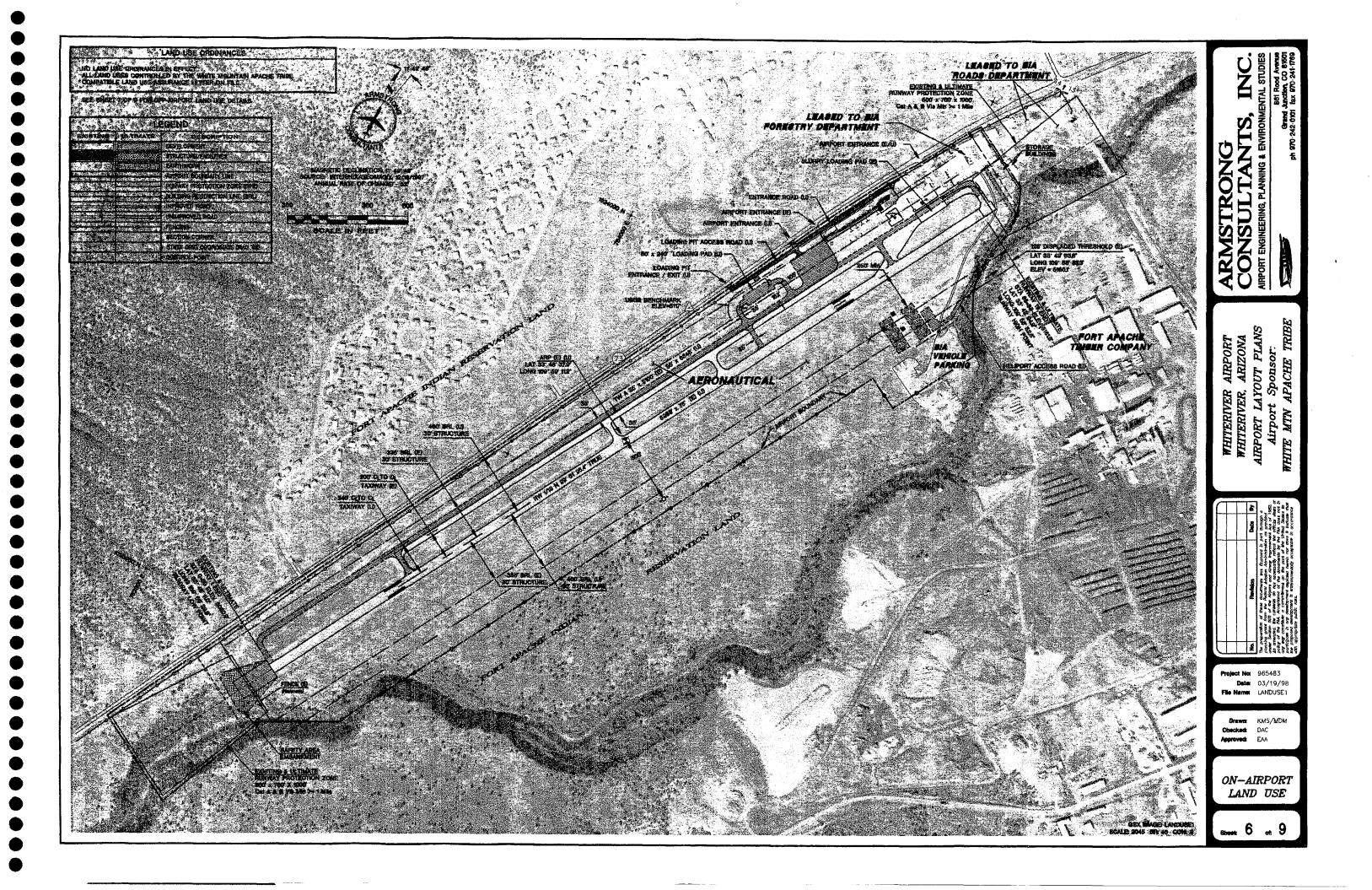
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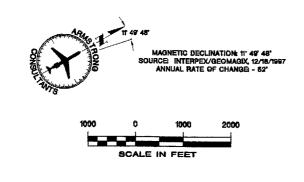
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INNER APPROACH RWY 1/19





LEGEND			
EXISTING	ULTIMATE	DESCRIPTION	
─		RWY 1 FLIGHT PATTERN	
	4	RWY 19 FLIGHT PATTERN	
		AIRPORT INFLUENCE AREA	
		AIRPORT BOUNDARY LINE	
		RUNWAY PROTECTION ZONE (RPZ)	
		DEVELOPMENT	
		STRUCTURE/FACILITIES	
		EARTHWORK	
		IMPROVED ROAD	
		UNIMPROVED ROAD	
	· · · · · ·	FENCING	
Á	nine.	SCHOOL / CHURCH / PUBLIC FACILITY	
30 - 31 1 - 6		SECTION CORNER	
+		STATE GRID COORDINATE (NAD '83)	
→ 1 MILE		DISTANCE IN NAUTICAL MILES	

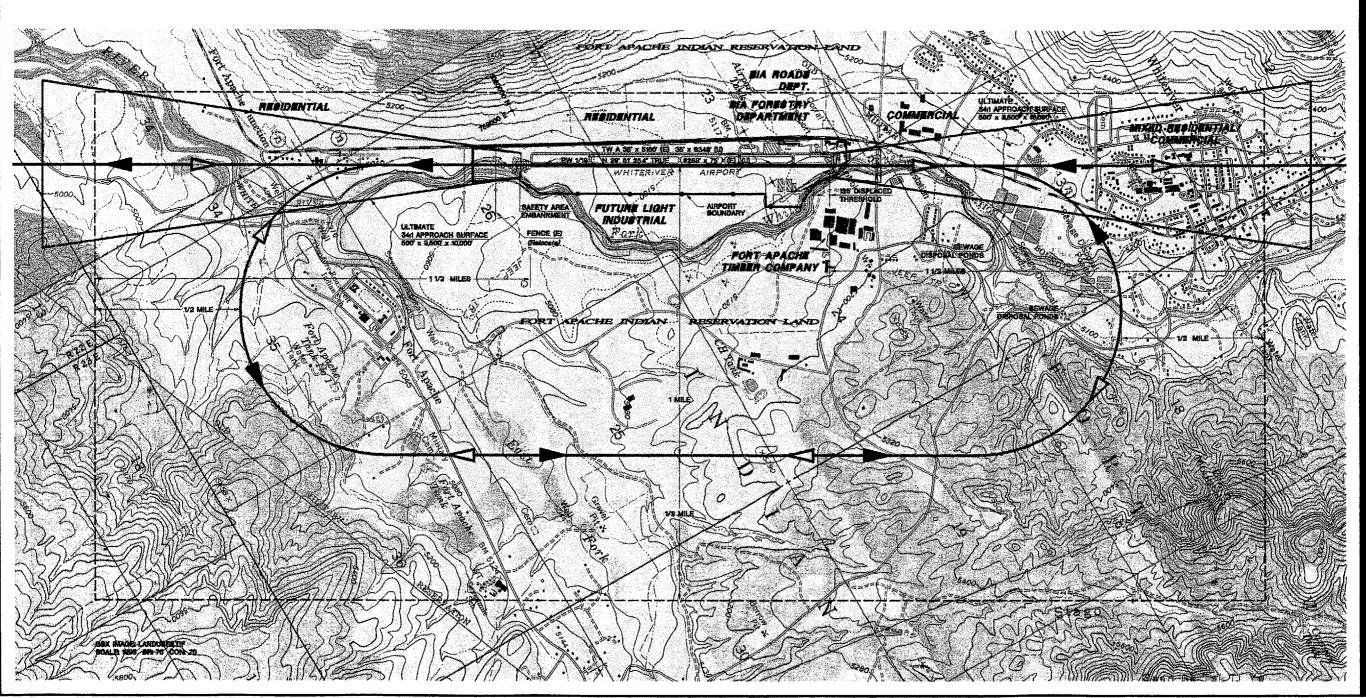


LAND USE ORDINANCES

NO LAND USE ORDINANCES IN EFFECT.
ALL LAND USES CONTROLLED BY THE WHITE MOUNTAIN APACHE TRIBE.
COMPATIBLE LAND USE ASSURANCE LETTER ON FILE.

INCOMPATIBLE LAND USES
SEWAGE DISPOSAL PONDS LOCATED 3.400 FROM RUNWAY 19 AND 3.600 FROM RUNWAY 1
NO REPORTS OF BIRD ATTRACTION TO THE PONDS OR HAZARD TO AIRCRAFT OPERATIONS
CREATED BY THE PONDS, NO ACTION REQUIRED AT THIS TIME.

SEE SHEET 6 OF 9 FOR ON-AIRPORT LAND USE DETAILS.



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WHITERIVER ARRONA
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AIRPORT LAYOUT PLANS
Airport Sponsor:
WHITE MTN APACHE TRIBE

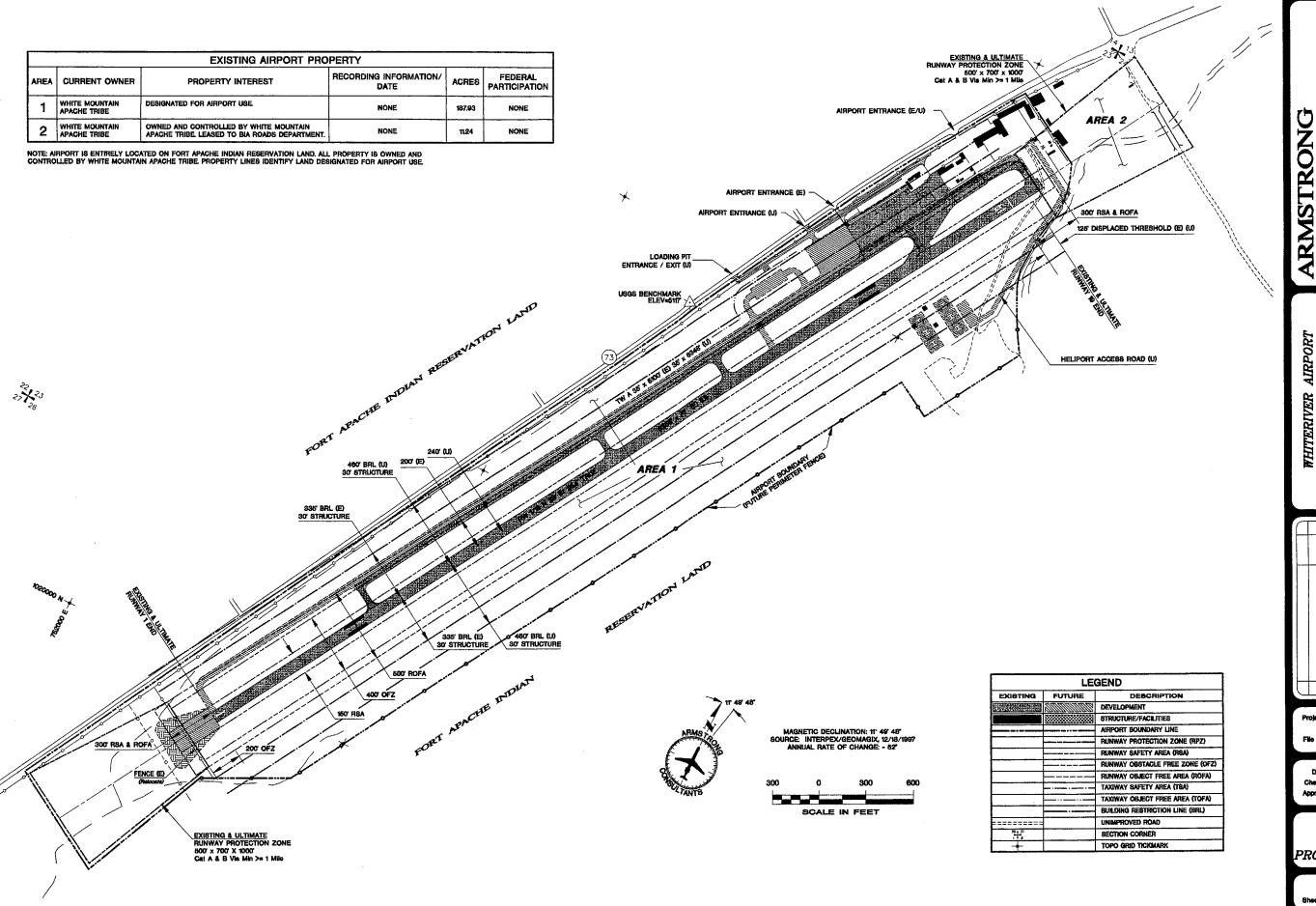
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OFF-AIRPORT LAND USE

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WHITERIVER AIRPORT
WHITERIVER, ARIZONA
AIRPORT LAYOUT PLANS
Airport, Sponsor:

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> EXHIBIT "A"

"A" PROPERTY MAP

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